

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2003/000979

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G02B 5/32, G03H 1/02, G11C 13/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G02B, G03H, G11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0930549 A1 (HOLTRONIC TECHNOLOGIES LTD), 21 July 1999 (21.07.1999), page 2 [0006]-[0009]; fig 3; claims 1,10,11 --	1,3,5
A	US 5625619 A (TODA ET AL), 29 April 1997 (29.04.1997), column 1, line 60 - column 4, line 62, figure 11, claims 1-4,11-17 --	1-3,17,23
A,T	US 20030218786 A1 (YAO ET AL), 27 November 2003 (27.11.2003), page 1 [0010]-[0015], fig 1-5; claims 1,6,9,12 -- -----	9,17,25-28

☐

Further documents are listed in the continuation of Box C.

☒

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

17 March 2004

Date of mailing of the international search report

19-03-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Igor Gazdik/EK
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

Information on patent family members

27/02/2004

International application No.

PCT/FI 2003/000979

EP	0930549	A1	21/07/1999	JP	2000056135	A	25/02/2000
<hr/>							
US	5625619	A	29/04/1997	DE	69321938	D,T	01/07/1999
				EP	0613126	A,B	31/08/1994
				JP	3175326	B	11/06/2001
				JP	6076365	A	18/03/1994
				US	5570338	A	29/10/1996
				US	5644565	A	01/07/1997
				WO	9406113	A	17/03/1994
<hr/>							
US	20030218786	A1	27/11/2003	NONE			
<hr/>							

1
INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2003/000979

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G02B 5/32, G03H 1/02, G11C 13/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G02B, G03H, G11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5142384 A (WOOD, G.P. ET AL), 25 August 1992 (25.08.1992), column 1, line 52 - column 2, line 5; column 2, line 62 - column 3, line 15, claim 1 --	1-28
A	EP 0930549 A1 (HOLTRONIC TECHNOLOGIES LIMITED), 21 July 1999 (21.07.1999), see the whole document --	1-28
A	US 5625619 A (TODA, T. ET AL), 29 April 1997 (29.04.1997), see the whole document -- -----	1-28

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22 March 2005

Date of mailing of the international search report

22-03-2005

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Anna Lundqvist /OGU

Telephone No. +46 8 666 02 80

INTERNATIONAL SEARCH REPORT
Information on patent family members

01/03/2005

International application No.

PCT/FI 2003/000979

US	5142384	A	25/08/1992	EP	0403134	A	19/12/1990
				GB	8913195	D	00/00/0000
				JP	3024588	A	01/02/1991
				GB	8925676	D	00/00/0000

EP	0930549	A1	21/07/1999	JP	2000056135	A	25/02/2000

US	5625619	A	29/04/1997	DE	69321938	D,T	01/07/1999
				EP	0613126	A,B	31/08/1994
				JP	3175326	B	11/06/2001
				JP	6076365	A	18/03/1994
				US	5570338	A	29/10/1996
				US	5644565	A	01/07/1997
				WO	9406113	A	17/03/1994
